INSTRUMENTS

Indicating instruments for the aircraft are installed on shock-mounted panels at the various crew member stations, according to their usage. The main instrument panel contains the pilot and co-pilot's flight instruments, radio navigational instruments, and the engine instruments. Access to the rear of this panel is possible when in its installed position. The systems engineer's panels contain the necessary instruments for monitoring and/or controlling the various systems of the aircraft. These include the fuel, electrical, air conditioning, cabin pressurization, anti-icing, hydraulic and oxygen systems. At the navigator's station, the instrument panel contains radio navigational instruments and flight instruments as required. In all locations the instruments are front-mounted for ease in maintenance or replacement. Instrument panels and associated instruments are shown.

The pitot-static system consists of two electrically heated pitot heads, located one on each side of the fuselage at approximately Station 150, and six flush-type static ports. These ports are located three on each side of the fuselage below each pitot head. Location of all of these units will be confirmed by actual flight tests. The pitot system as presented is self-draining and therefore requires no sumps. The static systems for the pilot and co-pilot's flight instruments each have a manifold installed directly behind the panel for distributing the static pressure through individual flexible hoses to those instruments utilizing this information. These manifolds also serve as a moisture sump and are provided with a drain plug.

Complete provisions and equipment for the use of a periscopic sextant are included at the navigator's station. A sextant mount is installed in the fuselage at top centerline. Two windows for viewing the heavens and an adjustable platform for the observer are also provided. The sextant is stored in a box on a shelf of the radio rack immediately aft of the navigator's table. The sextant may be removed and/or replaced without disturbing the mooring of the stowage box.

NOTE: The instrument panels shown on the following pages represent the mock-up panels prior to the Development Engineering Inspection (January 26-28) and do not incorporate any changes subsequent to this Inspection. Revisions to these panels will be incorporated in this Report at a later date.